

ABSTRACT OF THE DISCLOSURE

A liquid crystal display device is disclosed. The display device includes a first substrate and a second substrate facing the first substrate. A space for housing liquid crystal molecules is formed between the first substrate and the second substrate. The display device includes a plurality of liquid crystal molecules formed in the space in a predetermined arrangement, a first electrode with a first end and formed on the first substrate; and a second electrode with a second end and formed on the first substrate. A discharge gap is formed between the first end and the second end. When an external voltage is applied between the first and the second electrodes, an electrical field is generated to change the arrangement of the liquid crystal molecules. The display device fulfills the requirements for high quality LCD with a wide viewing angle and a high open ratio.